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## ABSTRACT OF THE DISCLOSURE

An arrangement for cooling a rotor of a motor, generator or alternator wherein at least one cold plate element is disposed between a rotor pole and its associated winding. One or more cold plate elements surround each pole and are in substantial contact therewith. In addition, each cold plate element is also in substantial contact with the pole winding. As a result, each cold plate element serves to conduct heat from both the pole and its associated winding. To enhance the cooling capabilities of this arrangement, each cold plate element may incorporate passageways for conducting a cooling medium through the element. Advantageously, the resulting rotor assembly is suitable for retrofit into existing applications having strict rotor size and weight requirements. In addition, this assembly is suitable for use in alternators, generators or motors, whether alternating current or direct current.